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**Fitzsimons, F. W.** THE NATURAL HISTORY OF SOUTH AFRICA. MAMMALS. Vol. I, pp. i-xix, 1-178, 51 plates; Vol. II, pp. i-xi, 1-195, 48 plates. London; Longmans, Green and Co., 1919.

The director of the Port Elizabeth Museum has given us a much needed work on the life-histories of the mammals of a region of very great interest. Based on long years of actual observation, his accounts of the various species, many of which are rapidly disappearing before the advance of settlement, are of more than usual completeness, and are presented in an entertaining style. The first volume includes the primates, bats, and Felidæ; the second contains accounts of the Viverridæ, the aard-wolf, hyenas, Canidæ, Mustelidæ, and the Cape sealion. A systematic index precedes and an outline of classification of the forms dealt with closes each volume. The main body of the text is decidedly popular and some of the biographies are extensive, that of the chacma including 40 pages. Well-selected anecdotes, usually based on first-hand experiences, help to complete the pictures of the homes, lives, and characteristics of the animals. The author's keen sympathy with wild creatures is evident throughout the work; extermination apparently necessary is deplored, and useless killing is condemned. The classification adopted, while in the main modern, is, in one place, curiously antiquated; the bat genera *Taphozous*, *Nyctinomus*, *Mormopterus*, and *Chærophon* being included in the family Vespertilionidæ. It is to be regretted that the International Code has not been followed strictly in the selection of names. In works for popular use these matters often are slighted, but there, if anywhere, they should be painstakingly correct; and differences in opinion might well be explained. It is presumed that the remaining volumes will include the rodents and ungulates, and naturalists interested in the wondrous animal life of South Africa will look forward with pleasure to their appearance.

—N. Hollister.

**Rathbun, Mary J.** REPORT OF THE CANADIAN ARCTIC EXPEDITION, 1913-18. VOL. VII: CRUSTACEA. PART A: DECAPOD CRUSTACEANS. Southern Party—1913-16, pp. 1-14D. Ottawa, August 18, 1919.

In this paper Miss Rathbun, listing the decapod crustaceans collected by the expedition, identifies the following species taken from the stomachs of the bearded seal, *Erignathus barbatus* (Erxleben), and common rough seal, *Phoca hispida* Schreber:

*Spirontocaris grænlandica* (J. C. Fabricius) from *E. barbatus*.

*Spirontocaris spina* (Sowerby) from *P. hispida* and *E. barbatus*.

*Spirontocaris phippsii* (Krøyer) from *E. barbatus*.

*Spirontocaris polaris* (Sabine) from *E. barbatus*.

*Sclerocrangon boreas* (Phipps) from *E. barbatus*.

*Sabinea septemcarinata* Sabine from *E. barbatus* and *Phoca foetida* (*hispida*).

—R. M. Anderson.

**Dall, William Healey.** REPORT OF THE CANADIAN ARCTIC EXPEDITION, 1913-18. VOLUME VIII: MOLLUSKS, ECHINODERMS, COELENTERATES, ETC. Part A: MOLLUSKS, RECENT AND PLEISTOCENE. Southern Party—1913-16, pp. 1-30A. Ottawa, September 24, 1919.

In this paper Dr. W. H. Dall, honorary curator of mollusks, United States National Museum, in describing the mollusks collected by the expedition, iden-

tifies the following species taken from the stomachs of bearded seal, *Erignathus barbatus* (Erxleben), taken at Bernard harbour, Dolphin and Union Strait, Northwest Territories: *Margarites helicinus* Fabricius, *Musculus laevigatus* Gray, *Saxicava arctica* Linné, *Cylichna* sp. (fragment), opercula of *Buccinum* sp. indet., ovicapsules of *Buccinum* sp., *Utriculus* sp. (fragments), *Margarites sordidus* Hancock (fragments), molluscan egg capsules, egg capsules of unknown gastropods.

—R. M. Anderson.

ANTHONY, H. E. A zoölogist in Jamaica. Nat. Hist., vol. 20, pp. 156-168. March-April, 1920. (Interesting account of the living and extinct mammals.)

BOLK, L. Das Haarkleid eines Fetus von Schimpanse. Bijdragen tot de Dierkunde, Amsterdam, vol. 20, Feest-number, pp. 57-65, with 8 figs. Leiden, 1919.

DE LANGE, DAN., JR. Contribution to the knowledge of the placentation of the Cape goldmole (*Chrysochloris*). Bijdragen tot de Dierkunde, Amsterdam, vol. 20, Feest-number, pp. 165-173, pls. 4-7. Leiden, 1919.

DEXTER, JOHN S. Albino vertebrates. Science, n. s., vol. 52, pp. 130-131. August 6, 1920. (Record of albino *Citellus richardsoni* from Saskatchewan.)

DREYER, W. Vejleder i Zoologisk Have. Pp. 1-72; many figs. Kjöbenhavn, 1920. (Guide to the Copenhagen zoological gardens for the spring of 1920. According to the annual report, which arrived in the same mail, the collection contained on January 1, 1920, 365 mammals of 124 species.)

EARNSHAW, FRANK L. See Lawyer, Geo. A., and Frank L. Earnshaw.

FLOWER, S. S. Report on the Zoological Service for the year 1919. In which is included the 21st annual report of the Giza Zoological Gardens. Ministry of Public Works, Egypt, pub. no. 31, pp. 1-26. Cairo, 1920.

GIDLEY, JAMES WILLIAMS. Pleistocene peccaries from the Cumberland cave deposit. Proc. U. S. Nat. Mus., vol. 57, pp. 651-678; figs. 1-13; plates 54-55. 1920. (Revised definitions for the families Suidæ and Tayassuidæ, and the genera of peccaries. Describes two new species each of *Platygonus* and *Mylohyus*.)

HARRISON, H. S. The ascent of man: a handbook to the cases illustrating the structure of man and the great apes. The Horniman Museum and Library no. 13, pp. 1-74. London County Council, 1920.

HINTON, MARTIN A. C. The Irish otter. Ann. and Mag. Nat. Hist., ser. 9, vol. 5, p. 464. June, 1920. (Revives the name *Lutra roensis* Ogilby, 1834; and recognizes the otter of Ireland as a subspecies of *L. vulgaris*.)

HINTON, MARTIN A. C. The species of *Pedetes* inhabiting Angola. Ann. and Mag. Nat. Hist., ser. 9, vol. 6, pp. 102-104. July, 1920. (*Pedetes angolæ* sp. nov.)

HINTON, MARTIN A. C. Three new mammals from northern Rhodesia. Ann. and Mag. Nat. Hist., ser. 9, vol. 6, pp. 239-242. August, 1920. (Describes *Mimetillus thomasi*, *Kerivoula lucia*, and *Zelotomys shortridgei*.)

- HINTON, MARTIN A. C., AND P. S. KERSHAW. On a collection of mammals from the Dinka country, Bahr-el-Djebel. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 6, pp. 94-101. July, 1920. (New: *Taterona benvenuta*, *T. b. lucia*, and *Acomys wilsoni argillaceus*.)
- HORNADAY, WILLIAM T. The rescued seal industry. *Science*, n. s., vol. 52, pp. 81-82. July 23, 1920. (Five-year close season justified. 9100 skins sold in February, 1920, by government, net proceeds of which were \$1,182,905.)
- HOWELL, A. BRAZIER. A study of the California jumping mice of the genus *Zapus*. *Univ. California Publ. Zool.*, vol. 21, pp. 225-238, 1 text fig. May 20, 1920. (Describes one new form, *Zapus trinotatus eureka*, from Fair Oaks, Humboldt County, California.)
- JORDAN, DAVID STARR. The fur seals. *Science*, n. s., vol. 52, p. 255. September 3, 1920. (Regards the recent five years closed season as "absurdly needless.")
- KERSHAW, P. S. See Hinton, Martin A. C., and P. S. Kershaw.
- KLOSS, C. BODEN. On mammals collected in Siam. *Journ. Nat. Hist. Soc. Siam*, vol. 3, pp. 334-407, pls. 7-8. December 31, 1919. (Report on 340 specimens collected in 1916. New forms include *Presbytis argenteus*, *P. cristata koratensis*, *P. germaini changensis*, *Macaca nemestrina indochinensis*, *M. irus atriceps*, *Viverricula malaccensis thai*, *Tupaia glis cambodiana*, *T. g. olivacea*, *Tamias maclellandi liantis*, *Menetes berdmorei peninsularis*, *Rattus rajah koratis*, *R. r. kramis*, *R. rattus lanensis*, *R. r. kramensis*, *R. r. mesanais*, *R. r. koratensis*, *Bandicota siamensis*, and *Capricornis sumatraensis annectens*.)
- KURODA, NAGAMICHI. On a collection of Japanese and Formosan mammals. *Annot. Zool. Japonensis*, vol. 9, part 5, pp. 599-611. 1920. (Describes *Nyctalus noctula namiyei*, subsp. nov., from Otsukuejima, on the coast of Chikuzen Province, Kiusiu, Japan.)
- KURODA, NAGAMICHI. On two rare species of Muridæ from the Central Mountains of Formosa. *Dobutsugaku Zasshi*, vol. 32, pp. 36-43, figs. 1-2, 1920. (Describes *Microtus kikuchii*, sp. nov., from 10,000 feet altitude on Mount Morrison, Formosa; and records two specimens of *Rattus culturatus* Thomas from the same locality.)
- LANG, HERBERT. The white rhinoceros of the Belgian Congo. *Zool. Soc. Bull.*, vol. 23, pp. 67-92, numerous half-tone figs. July, 1920. (General account of the animal, its habits, physical features, distribution, habitat; with experiences of the author while collecting specimens for the American Museum of Natural History.)
- LAWYER, GEO. A., AND FRANK L. EARNSHAW. Game laws for 1920. A summary of Federal, State, and Provincial statutes. *U. S. Dept. Agric., Farmers' Bull.* 1138, pp. 1-84. August, 1920.
- MILLER, GERRIT S., JR. American records of whales of the genus *Pseudorca*. *Proc. U. S. Nat. Mus.*, vol. 57, pp. 205-207, pls. 27-31. June, 1920. (Specimens from Peru, Lower California, Venezuela, and Florida.)
- MOORE, CARL R. The production of artificial hermaphrodites in mammals. *Science*, n. s., vol. 52, pp. 179-182. August 20, 1920.

- MURPHY, ROBERT CUSHMAN. The seacoast and islands of Peru. I. Brooklyn Mus. Quart., vol. 7, pp. 69-95, 6 figs. April, 1920. (Includes discussion of the relation of ocean currents to the distribution of pinnipeds and other marine vertebrates. Maps show range of fur-seals, sea-elephants, and sea-lions.)
- NEW YORK ZOOLOGICAL SOCIETY. Twenty-fourth annual report. 1919. Pp. 1-204, numerous illustrations. January, 1920. (On December 31, 1919, the collection of living animals at the New York Zoological Park included 591 mammals of 173 species.)
- OBERHOLSER, HARRY C. The nomenclature of families and subfamilies in zoology. Science, n. s., vol. 52, pp. 142-147. August 13, 1920. (Tentative rules for the determination and treatment of family and subfamily names.)
- SHUFELDT, R. W. Tramps through the Gulf States—I. Amer. Forestry, vol. 26, pp. 489-496. August, 1920. (Photographs of the Texas armadillo.)
- SUMNER, FRANCIS B. The need for a more serious effort to rescue a few fragments of vanishing nature. Sci. Monthly, 1920, pp. 236-248. March. (A plea for permanent reservations for wild life that will preserve truly natural conditions.)
- SUMNER, FRANCIS B. Geographic variation and Mendelian inheritance. Journ. Exper. Zool., vol. 30, pp. 369-402; figs. 1-7; tab. 1-4. April, 1920. (Interesting experiments with different geographical races of California *Peromyscus*.)
- THOMAS, OLDFIELD. New species of *Reithrodon*, *Abrocoma*, and *Scapteromys* from Argentina. Ann. and Mag. Nat. Hist., ser. 9., vol. 5, pp. 473-478. June, 1920.
- THOMAS, OLDFIELD. *Notoryctes* in North-west Australia. Ann. and Mag. Nat. Hist., ser. 9, vol. 6, pp. 111-113. July, 1920. (Describes a new species, *N. caurinus*.)
- THOMAS, OLDFIELD. A new genus of Echimyinae. Ann. and Mag. Nat. Hist., ser. 9, vol. 6, pp. 113-115. July, 1920. (*Lonchothrix emiliae* gen. et spec. nov., from Rio Tapajoz, Brazil.)
- THOMAS, OLDFIELD. On mammals from near Tinogasta, Catamarca, collected by Sr. Budin. Ann. and Mag. Nat. Hist., ser. 9, vol. 6, pp. 116-120. July, 1920. (New: *Octomys*, type *O. mimax* sp. nov.; and *Ctenomys coludo*; both from Argentina.)
- THOMAS, OLDFIELD. A new tuco-tuco from Tucuman. Ann. and Mag. Nat. Hist., ser. 9, vol. 6, pp. 243-244. August, 1920. (Describes *Ctenomys occultus* from Tucuman Province, Argentina.)
- WILLOUGHBY, CHARLES H. Beavers and the Adirondacks. Conservationist, vol. 3, pp. 67-70. May, 1920. (Beavers introduced from Yellowstone Park and other localities have restocked this region, where it is now estimated there are between 15,000 and 20,000 animals.)